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CONTRACTOR OF SECURITY SECURITY

86-58-6-15/34

AUTHOR:

Konovalov, N. E., Engineer, Lt Col, Candidate of Technical Sciences

TITLE:

Working Cycle and Efficiency of a Liquid-fuel Rocket Engine (Rabochiy

protsess i koeffitsiyenty poleznogo deystviya ZhRD)

PERIODICAL: Vestnik Vozdushnogo flota Nr 6, 1958, pp 44-52 (USSR)

ABSTRACT: The author describes briefly a liquid-fuel rocket engine, discusses the design and operation of the combustion chamber, and presents a diagram showing the gas temperature variations along the combustion chamber (Fig.1). Two formulas $P=G \ C_C + F_C \ (p_C - p_C)$ and $P_S=\frac{P}{G} \ \frac{kg}{kg/sec}$ for the calculation

of the thrust and the specific thrust respectively are also given. Describing the design and the operation of the exhaust nozzle, the author gives its schematic drawing (Fig. 2), a diagram showing the dependence of the coefficient Ψ_H on the angle of the nozzle's divergency (Fig. 3), and a schematic diagram showing the distribution of pressure in the nozzle (Fig. 4). Discussing the efficiency of a liquid fuel rocket, the author defines the inner efficiency (Υ_i), the thrust efficiency (Υ_i).

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Card 1/2

86-58-6-15/34

Working Cycle and Efficiency of (Cont.)

cc) 2 Figures 5,6, and 7 show the and the total efficiency

the ratio of the thrust of a liquid-fuel rocket at a nonrated mode of operation to the thrust at the rated mode of operation, depending on the ratio of pressures p / p , the dependence of the inner efficiency on the rate of

the expansion of gas in the nozzle, and the variation of the thrust efficiency and the variation of the total efficiency depending on the ratio of are two schematic drawings and 6 diagrams.

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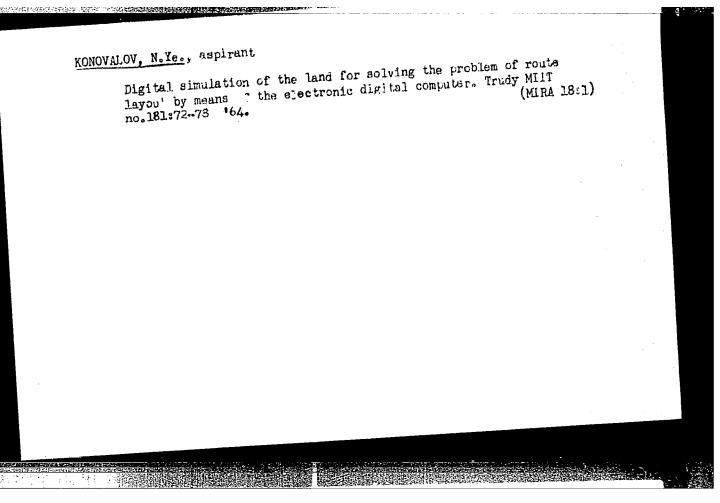
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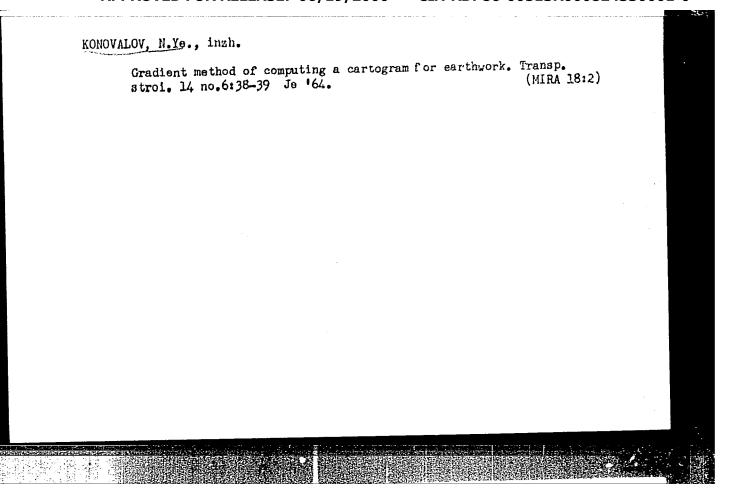
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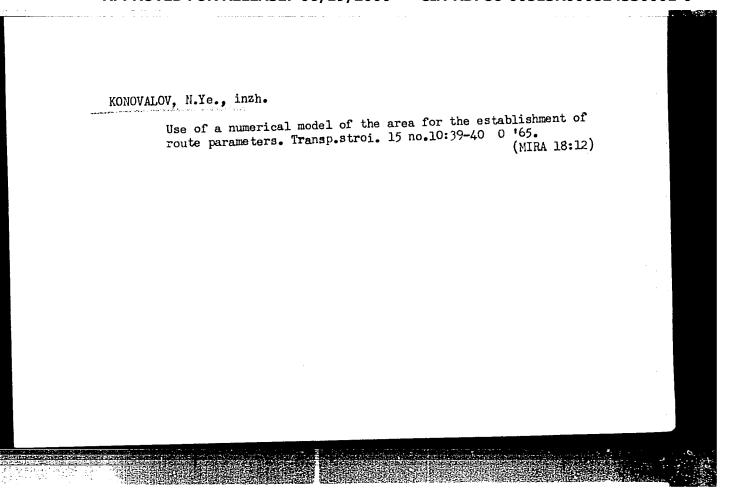
KONOVALOV, N.Ye., inzh.; SIBIRKO, A.N., inzh.

An efficient method of computing the volumes of the earth roadbed of railroads on an electronic digital computer.

Transp. stroi. 12 no.1:38-39 Ja '62. (MIRA 17:2)







Konovalov, N.Ye., inzh.

One of the methods of assigning graphs to the memory of electronic computers. Transp. stroi. 15 no.6:39-40

Je '65.

(MIRA 18:12)

14,7700 (1137,1136,1158)

s/126/61/011/005/003/015

AUTHORS:

Palatnik, L.S., Konovalov, O.M., Gladkikh, N.T. and

Kolesnikov, V. N.

TITLE:

Investigation of the Three-Component Semiconductor

Compound PbBiSe

PERIODICAL: Fizika metallov i metallovedeniye, 1961, Vol.11, No.5,

pp.677-680

In investigating Pb-Bi-Se alloys of variable composition TEXT: the authors discovered that the PbBiSe compound has semiconductor properties. The Pb-Bi-Se alloys were produced by simultaneous evaporation and condensation of the components onto a glass base in a vacuum chamber (about 5×10^{-5} mm Hg). The temperature of the glass base varied between 20 and 120°C. Thus, specimens of variable composition were produced which were in a highly nonequilibrium state and also in a state approaching the equilibrium The investigations included measuring the thermo e.m.f. and also X-ray phase analysis. It was found that for a content of 28-44% Pb and 24-32% Se a sharp rise takes place in the thermo em.f. (to 300 μV/deg). X-ray investigations showed for this range lines Card 1/4

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22958

Investigation of the Three-Component ... 5/126/61/011/005/003/015 E073/E535

of a phase not hither to known to exist in the investigated binary systems. The maximum thermo e.m.f. are obtained for alloys condensed onto a base at the temperatures 20 and 120°C. From the results it is concluded that the compound PbBiSe forms and it was considered probable that this compound has semiconducting properties. Therefore, massive specimens of PbBiSe compounds were investigated. These were produced from a charge corresponding to the stoichiometric composition except for the selenium where an additional quantity had to be added to ensure equilibrium pressure of the selenium vapours in the free volume of the ampoule at 1100°C. charge was placed into a quartz ampoule which was evacuated and sealed after heating for two hours at 100°C. The thus produced compound was purified by zonal refining. The obtained PbBiSe specimens had a tetragonal lattice with the parameters a = 5.26 Å, c = 3.84 Å. The temperature dependence of the electric resistance is plotted in Fig. 3 (a - prior to zonal purification, during heating; b - same, during cooling, b - after zonal purification, during heating). Fig. 4 shows the volt/ampere characteristic for a point contact (I,mA vs. U,V). Fig.5 shows the dependence Card 2/4

22958

Investigation of the Three-Component..S/126/61/011/005/003/015 E073/E535

of the thermo e.m.f., E,mV/°C, on the distance along the length of the ingot, mm (a - prior to zonal purification, % - after zonal purification). It can be seen that PbBiSe₂ is a semiconducting compound. The specimens produced by the authors had an n-type conductivity and a rectification coefficient of 1000 to 1500. It was found that PbBiSe₂ can be purified by zonal recrystallization; the structure of the compound did not change as a result of multiple zonal recrystallization. There are 5 figures, 1 table and 4 references: 5 Soviet and 1 English language reference: (Ref. 3, Shockley, W. "Electrons and holes in semiconductors", Rissian translation, 1953).

ASSOCIATION: Khar'kovskiy gosudarstvennyy universitet imeni

A. M. Gor'kogo (Khar'kov State University imeni A. M. Gor'kiy)

SUBMITTED: July 27, 1960

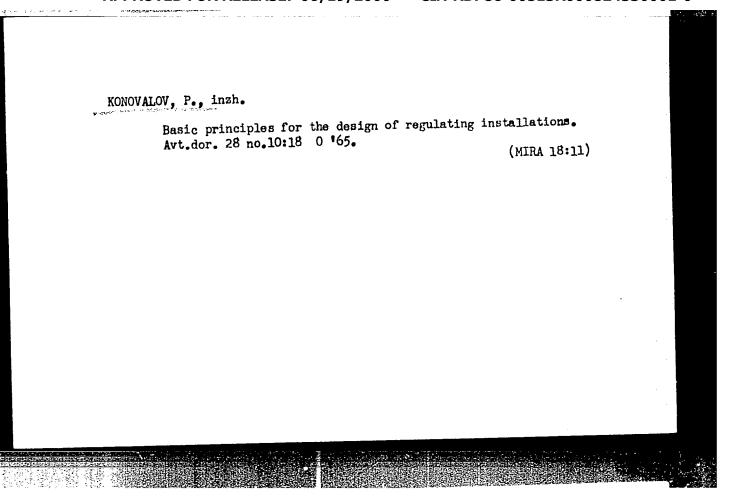
Card 3/4

KONOVALOV, Oleg Mikhaylovich; SKOROBOGATOV, B.S., kand. fiz.matem. nauk, otv. red.; DEREVYANCHENKO, R.M., red.

[Semiconductor materials] Poluprovodnikovye materialy.
Khar'kov, Izd-vo Khar'kovskogo univ., 1963. 212 p.

(MIRA 17:5)

Effect of solvents on the change in free energy of carboxylic acid molecules in solutions. Zhur. fiz. khim. 39 no.3:693-698 Mr '65. (MIRA 18:7) 1. Vsesoyuznyy nauchno-issledovatel'skiy institut monokristallov.



sov/123-59-16-64388

Translation from: Referativnyy shurnal. Mashinostroyeniye, 1959, Nr 16, p 106 (USSR)

AUTHOR:

Konovalov, P.A.

TITLE:

Commence of the Commence of th Machine Tool for the Catting of Tubes by Rolling

PERIODICAL: Byul. tekhn. ekon. inform. Sovnarkhoz Rostovsk. ekon. adm.r-na, 1958,

Nr 4, 31

ABSTRACT:

Instead of cutting tubes with a toothless saw by fusion, the Taganrog "Krasnyy Kotel shchik" Plant has constructed and put into operation machines for the cutting of tubes of 20 - 60 mm in diameter and more, with a thickness of wall of 1.5 - 3 mm. The machines warrant a clean cut of the tubes without burr and fusing. The speed of the cutting disk

1s 200 rpm, diameter - 180 mm, power - 1.7 kw. 1 photo.

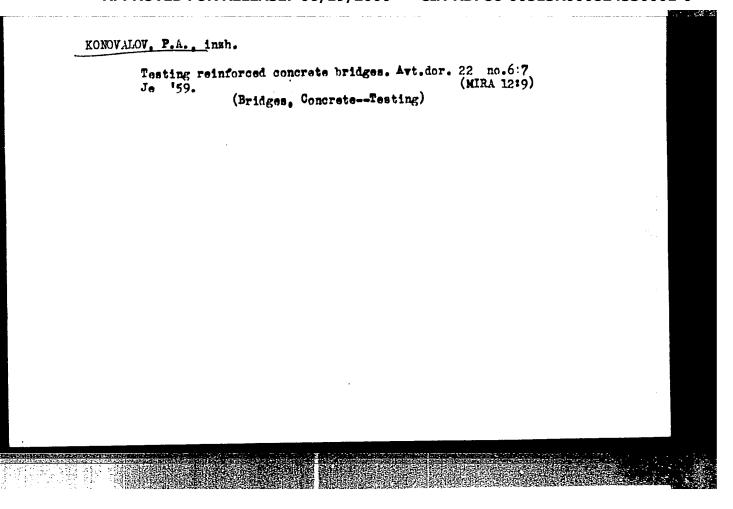
I.A.Ye.

Card 1/1

KONOVALOV, P.A.

Bridges with rigid reinforcement. Put' i put.khos. nc.1:19
Ja '59. (MIRA 12:2)

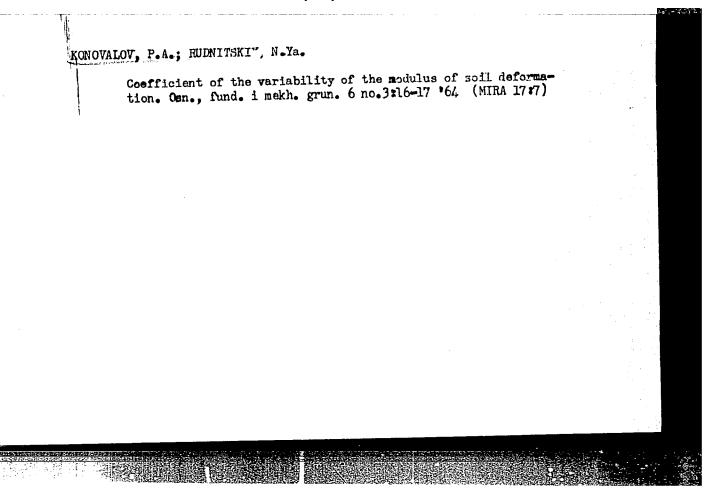
1. Starshiy insh. moetoispytatel noy stantsii, g. Tashkent. (Railroad bridges)

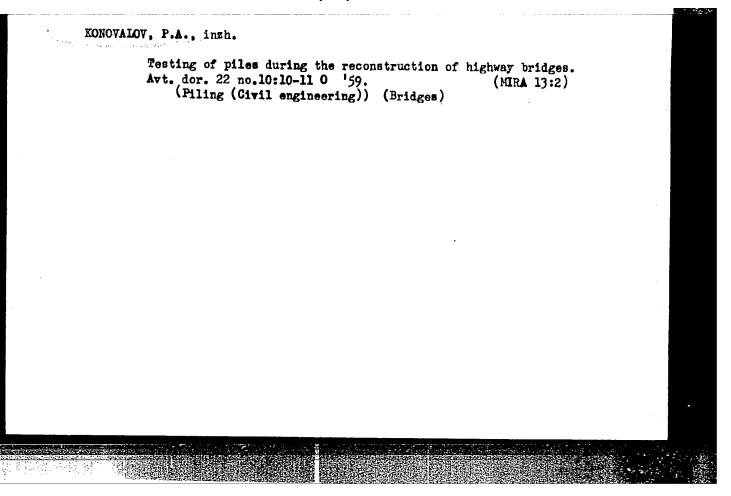


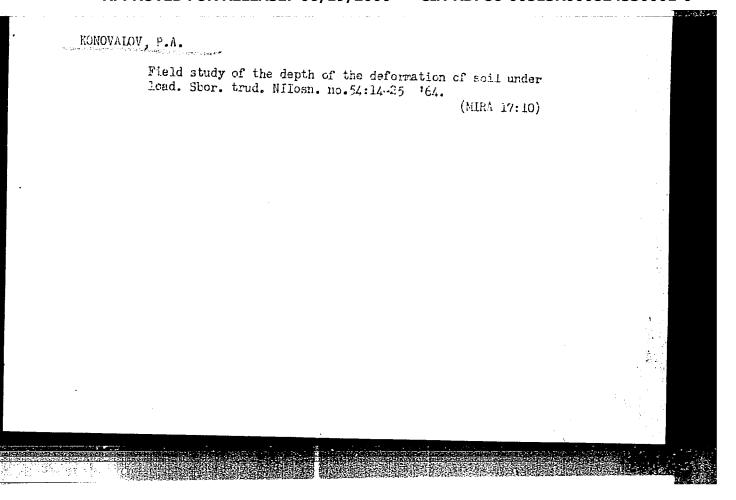
YEFREMOV, M.G.; KONOVALOV, P.A.; MIKHEYEV, V.V.

Distribution of deformations in layers of a clay and sand bed being compacted; from field experiment material. Osn., fund. i mekh.grun. 5 no.6:5-7 *63.

(MIRA 16:12)







KLEPIKOV, S.N., kand.tekhn.nauk; KONOVALOV, P.D., inzh.

Stand for testing models of buildings on irregularly

sagging foundation beds. Stroi.konstr. no.1:178-183
165. (MIRA 19:1)

1. Nauchno-issledovatel*skiy institut stroitel*nykh konstruktsiy Gosstroya SSSR, Kiyev.

PHASE I BOOK EXPLOITATION SOV/5809

Konovalov, Petr Gordeyevich

Plasticheskiye massy, ikh svoystva i primeneniye v promyshlennosti; spravochnoye posobiye (Plastics, Their Properties and Application in Industry; Handbook) Moscow, Gosizdat "Vysshaya shkola," 1961. 180 p. 18,000 copies printed.

Ed.: D. N. Vaskevich; Ed. of Publishing House: Ye.I. Avramenko; Tech. Ed.: T. D. Garina.

PURPOSE: This book is intended for students in schools of higher learning and technical personnel in industries which use plastics.

COVERAGE: The following topics are discussed in the introduction and subsequent text: the chemistry and technology of polymerization and polymer production, plastics and auxiliary materials (fillers, plasticizers, etc.) used in manufacturing plastic goods, the properties of plastics, and their application in industry,

Card 1/1

Plastics, Their Properties and (Cont.)

SOV/5809

including automobile manufacturing and shipbuilding. Plastics are classified according to their fields of application. Ch. I deals with general-purpose plastics; Chs. 2 and 3, with the application of medium- and high-strength plastics in machine building (antifriction and friction materials, toothed gears, etc.) and in electrical engineering, respectively. No personalities are mentioned. There are 23 references, all Soviet (including 1 translation).

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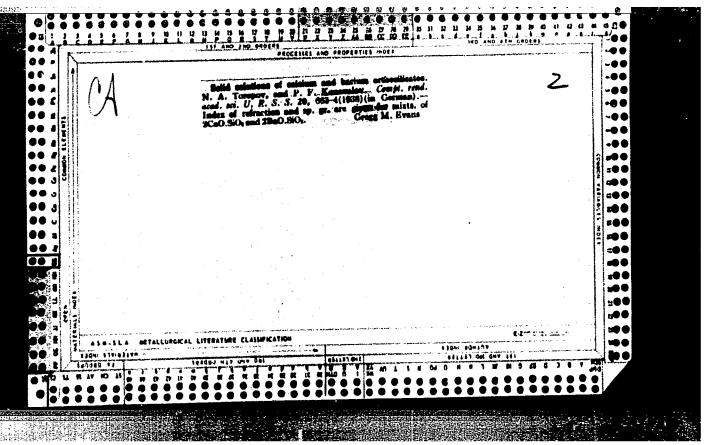
Ch. I. Plastics for General Purposes, Their Properties and Application

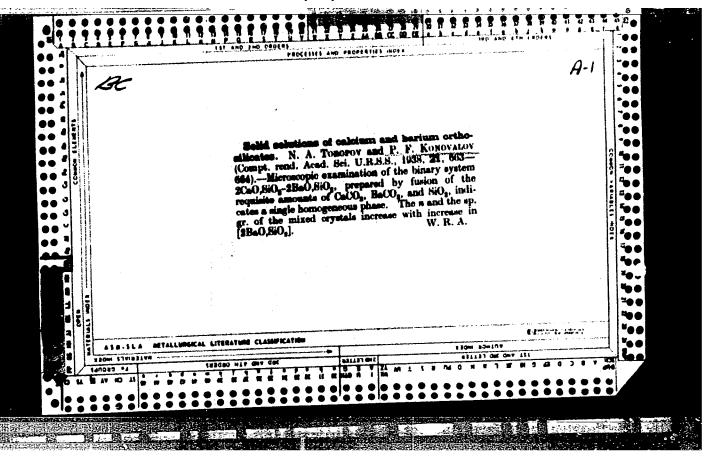
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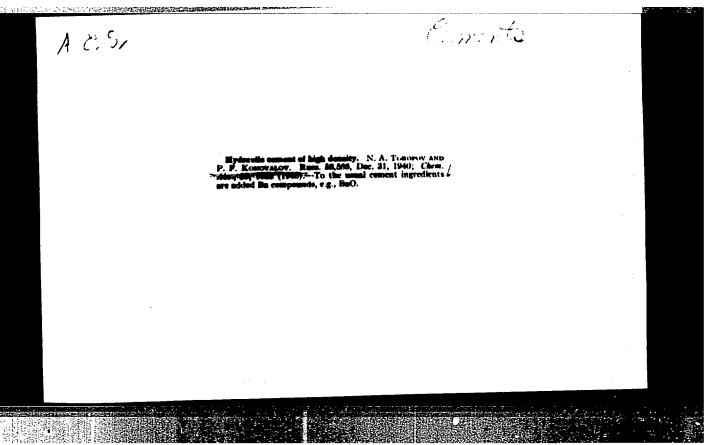
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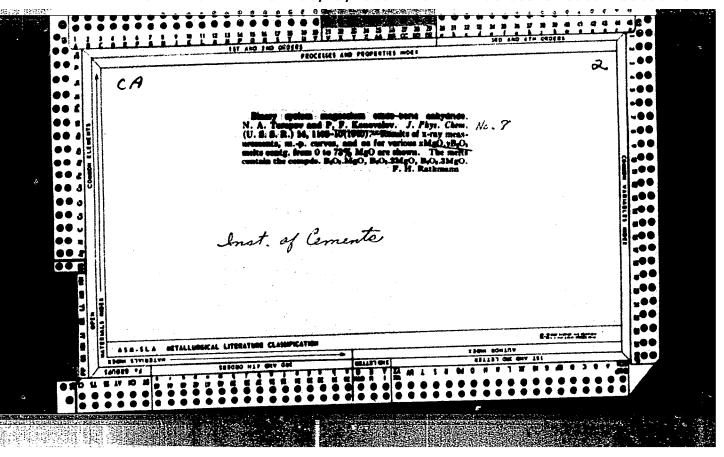
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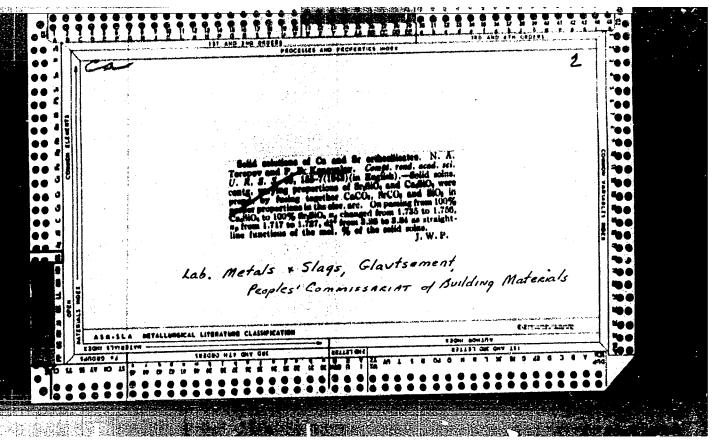
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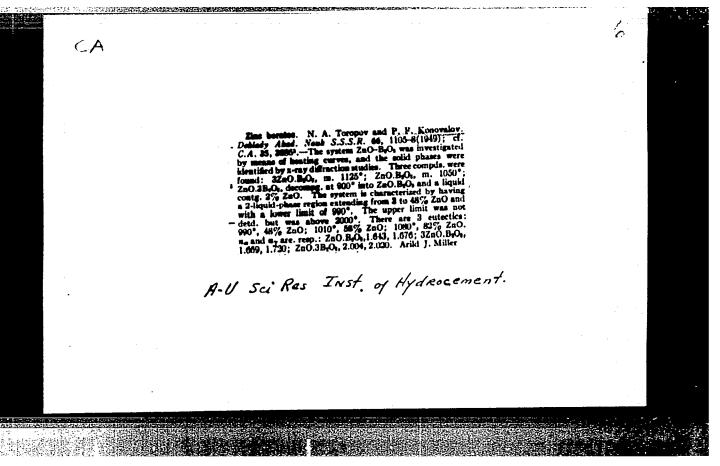


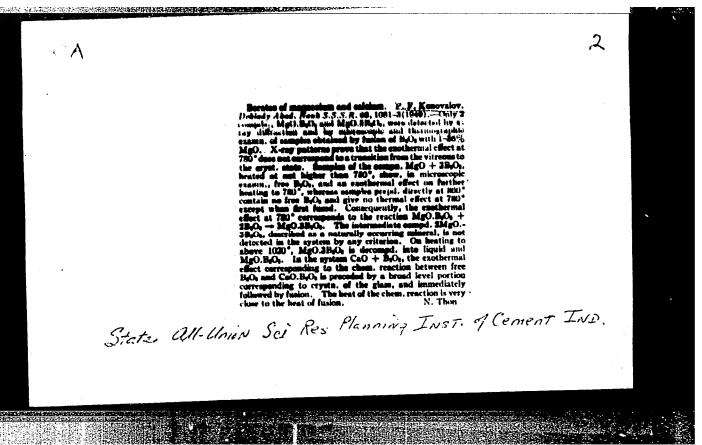
KONOVALEV, P. F.

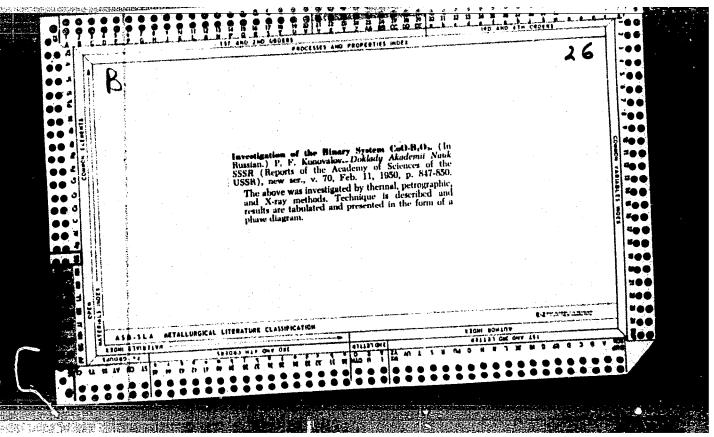
Intensification of clankering by addition of fluorspar into the raw mix. P. F. Konovalev and E. R. Skue. T sement 14, No. 5, 14-18(1948).

-The effect on CaF2 on clinkering was studied on slurries to which was added 0.08, 0.25,0.5, 1.0, and 1.5% of CaF2. Taking the theoretical hourly production as 100%, the relative outputs for the various CaF2 contents were 99.3, 109, 112, 106, and 104%, resp. Prior to these expts. the av. output of the kilns was 92% of theoretical. During these expts. it was 101.3, 96, 94, 97.6, and 97%. The optimum quantity is 0.5% of the dry slurry components. The temp. in the fusion zone of the kiln dropped form 1440 to 1390°, and the temp. of the flue gases from 470 to 390°. Addn. of 0.5% of CaF2 resulted in the formation of a stable coating on the refractory lining. At 0.3% of CaF2 this coating disappeared and above 0.5% it crumbled and fell off. The compn. of the clinker also imporved. The contents of alite, belite, and relite in the different clinkers are given.

M.H.







KONOVALOV, P. F.

Portland Cement

Use of artificial fluorine calcium in burning Portland cement clinker, TSement 18, No. 3, 1952

2 9. <u>Monthly List of Russian Accessions</u>, Library of Congress, October 195%, Unclassified.

KONOVALOV, Y.F.		
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	4803. Ionization X-Ray Analysis for the Investigation of	1
	Coments. Ionizatsionnyl rentgenovskii anuliz din issledovanila tementov. (Russian.) N.A. Torones, F. F. Kornevskii. A. I. Efremor, and (2. V. Anarese.)	
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TOROPOV, N.A.; KOMOVALOV, P.F.; YEFREMOV, A.I.; ANAN'YEVA, G.V.

Use of the high-temperature X-ray ionization method for studying processes that take place in alumina production. TSvet.met. 27 no.2: 37-42 Mr-Ap '54.

(Alumina) (X zays)

(Alumina) (X zays)

LUR'YE, Yu.S., kandidat tekhnicheskikh nauk; KONOVALOV, P.F., kandidat tekhnicheskikh nauk; LEVIN, N.I., kandidat tekin foloskikh nauk.

Two-way feeding of rotary kilns with raw material mixture. TSement (MIRA 8:4) 21 no.1:15-19 Ja '55. (Coment kilns)

ONOVALOVS

USSR /Chemical Technology. Chemical Products and Their Application

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31638

Konovalov P. F., Yefremov A. I. Author

Use of Rapid Ionizational Roentgenostructural Title

Analysis in the Studies of Cements

Tr. Soveshchaniya po khimii tsementa. M., Prom-Orig Pub:

stroyizdat, 1956, 106-113

Abstract: Description of an accelerated ionizational roent-

genographic method for the investigation of kinetics of formation of silicates under the influence of high temperatures. Results are given of studies of the transformations of kaolinite and alumina at different temperatures and diff-

erent duration of heating.

Card 1/1

KONOVALOV, P.F., kandidat tekinicheskikh nauk; MOROZOV, Ye. I., inzhener.

Studying the kinetics of cement hydration with the help of radioactive isotopes. TSement 22 no.5:4-6 S-0 '56. (MIRA 10:1) (Gement) (Hydration) (Radioisotopes--Industrial applications)

Hydration of CaO and 3CaO.Al O . contg. Ca , was studied by measurements of radioactivity of dissolved Ca (OH) in water. With both compds. a max. activity was reached after a few min., followed by a decline, which can be explained by an initial temporary supersatu. of water in respect to Ca ions.

KONOVALOV, P.F.

USSR/ Laboratory Equipment. Apparatuses, Their Theory, Construction and Application.

I

Abs Jour: Referat. Zhur.-Khimiya, No. 8, 1957, 27324.

Author : P.F. Konovalov, A.I. Yefremov.

Title : Application of Fast Ionization X-Ray-Structural Analysis to Study of Crystalline Substances.

Orig Pub: Zavod. laboratoriya, 1956, 22, No. 7, 824 - 827.

Abstract: The installation with ionization recording (self-quenched counter tube) was constructed on the basis of the x-ray goniometer. The recording of ionization curves is carried out on oscillographic photographic paper 120 mm wide with a mirror galvanometer. Several ionization curves and the voltampere characteristic of the counter are

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Card 1/2

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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824330001-0

AUTHORS: Avgustinik, A.I., Kozlovskiy, L.V., Konovalov, P.F. 76-11-18/35

TITLE: On the Behavior of Muscovite When Heated (K voprosu ob otnoshenii muskovita k nagrevaniyu)

PERIODICAL: Zhurnal Fizicheskoy Khimii, 1957, Vol.31, Nr 11, pp. 2495-2500 (USSR)

Here Karelian muscovite with a comparatively high heat- and chemical ABSTRACT: resistance was investigated. Its chemical composition was as follows: $SiO_2 - 44.80$, $TiO_2 - 0.25$, $Al_2O_3 - 35.54$, $Fe_2O_3 - 3.05$, CaO - 0.32, MgO - 1.37, Na₂O - 1.58, K₂O - 8.82, losses by annealing - 4.70%. Individual rutile- and chlorite crystals were admixed. The following is shown: 1.) Separation of water in muscovite dehydration takes place in two stages: up to 400-450° 10 - 12%, and in the interval between 600 and 9000 the most essential part is separated, which is constitutionally connected with the muscovite crystal lattice. 2.) Expansion of the sample, which is produced from finely ground muscovite, also takes place in two stages: a) at 400° (about 2% of the initial length), b) at 850-900 (about 1.7% of the initial length), which can be brought into connection with the separation of water in this stage. 3.) The action of a 6% hydrochloric acid solution upon the muscovite, which was annealed at different temperatures, proves the existence of an Card 1/2

24(2,4)

PHASE I BOOK EXPLOITATION

SOV/3149

Konovalov, P. F., A. I. Yefremov, and B. V. Volkonskiy

Ionizatsionnaya rentgenostrukturnaya ustanovka dlya issledovaniya kristallicheskikh veshchestv pri razlichnykh temperaturakh (Ionization X-ray Apparatus for Study of Crystalline Substances at Various Temperatures) Leningrad, 1958. 133 p. Errata slip inserted. 1,000 copies printed.

Sponsoring Agency: Nauchno-tekhnicheskoye obshchestvo promyshlennosti stroitel'nykh materialov, Leningradskoye oblastnoye pravleniye.

Ed. (Title page): N. A. Toropov, Member of the Academy of Building and Architecture, USSR, Professor, Doctor of Technical Sciences; Ed. (Inside book): V. I. Sadkov.

PURPOSE: This book is intended for physicists and engineers in industry, civil engineers, physical metallurgists, researchers in scientific research institutes and persons affiliated with higher educational institutions who are interested in the construction, application and operation of ionization x-ray units

Card 1/7

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824330001-0 Ionization X-ray Apparatus (Cont.) S0V/3149

for studying the composition and structure of building materials, metals and other substances.

COVERAGE: The book gives a detailed description of the development and operation of an ionization x-ray unit by members of the laboratory for physical chemistry and petrography at Giprotsement and present some practical methods for its utilization. The second part of the book reviews a number of investigations which demonstrate the superiority of this method in the analysis of polycrystalline substances and building materials, and in studies of polymorphic transformation processes, clinker formation, and the hydration processes of cements, clinker metals and other materials. Many of the figures are reproductions of ionization roentgenograms of hydration and dehydration products of metallic salts. No personalities are mentioned. There are no references.

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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R00082 Ionization X-ray Apparatus (Cont.) SOV/3149	4330001-0
4. The goniometer 5. Gear Box 6. The synchronous motor 7. Electromagnetic clutch coupling 8. Counter dial 9. Photo-drum 10. Platinum-rhodium furnace with lifting device 11. Radio engineering diagram of the amplification, formation and conversion of pulses 12. Rectifier for supply of a radio circuit and of a counter 13. High-voltage source of an x-ray tube	28 28 28 31 31 31 31 34
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SOV/101-59-2-7/13 15(6)

Konovalov, P.F. and Morozov, Ye.I. AUTHORS:

The Composition of Products Resulting From the Hydration TITLE:

of Aluminates in a Solution of CaCl2

Tsement, 1959, Nr 2, 25-27 (USSR) PERIODICAL:

The authors state that the solidification of cement is the ABSTRACT:

result of various chemical reactions. Simultaneously occurring hydration, hydrolysis, compounding process and others, in their assembly, complicate the survey of the hardening process. The hydrochloric aluminates, resulting from the reaction of the tricalcium aluminate with a solution of CaCl,, have been studied by many investigators.

The composition of the cement clinker may contain aluminates

of subbasic properties, such as 12CaO · 7Al₂O₃,

CaO • Al₂O₃, CaO • 2Al₂O₃, producing combined complexes with calcium chloride. Tricalcium aluminate, in a combina-

tion with calcium chloride produces the compound Card 1/3

SOV/101-59-2-7/13

The Composition of Products Resulting From the Hydration of Aluminates in a Solution of CaCl2

3CaO • Al₂O₃ • nCaCl₂ • qH₂O; in the hard state the hydrolysis products are absent. This fact simplifies finding of the detailed composition of the complex. For identification purposes, the method of radioactive indicators has been applied (Tsement, Nr 3, 1958, p 24), permitting to determine the composition of new compounds. Another method is the X-ray structural analysis. Aluminum hydrooxide, resulting from the hydrolysis of aluminates occurring in a highly dispersive state, does not disturb the structural image of new compounds. An X-ray generator, built by the Giprotsement (State Institute for the Design and Planning of Establishments for Scientific Research in the Cement Industry) was used for this purpose, with a type BSV X-ray tube and an Ni filter; the tube was placed horizontally. The characteristic of the tube was: power (u) 28 kW, current 20 milliamperes. The voltage of the

Card 2/3

SOV/101-59-2-7/13

The Composition of Products Resulting From the Hydration of Aluminates in a Solution of CaCl₂

incandescence was stabilized by a ferro-resonance stabilizer. The voltage shown on the meter was up to 1300 v from the BAS-80 type batteries. The sample of the mineral to be examined was mixed with a 10% solution of CaCl₂. In order to prevent setting, the mixture was shaken several times. Prior to the X-raying, the suspension was filtered through a glass type Nr 4 filter. The deposited residue was rinsed with ethyl alcohol and dried at 20° C. Then, the radiograph was made. The water binding content for all aluminates was 100:1. The authors conclude that calcium aluminates having various bases produce a complex compound of identical composition in CaCl₂. There are 3 sets of graphs and 1 Soviet reference.

Card 3/3

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75694 80V/80-32-10-43/51

AUTHORS:

Petrova, V. Z., Avgustinik, A. I., Konovalov, P. F.,

Konovalova, Ye. P.

TITLE:

Brief Communications. Concerning Dissolution of Quartz

in Feldspar Melts

PERIODICAL:

Zhurnal prikladnov khimii, 1959, Vol 32, Nr 10, pp 2351-

2354 (USSR)

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ABSTRACT:

The vitreous phase of porcelain was studied in order to determine the effect of the quartz dissolved in it on the mechanical properties of porcelain. The samples were prepared by semi-dry pressing under 1,000 kg/cm² at 7-8% moisture. The samples were disks of diameter 20 mm, thickness 3 mm. A mixture of potassium feldspar and pulverized quartz was used. The samples were kilned at 1,200, 1,280 and 1,350° with different holding time (1, 2.5, 5 and 9 hr). The samples were investigated by: X-ray quantitative analysis, using pulverized samples, with chemically pure calcium fluoride as an internal

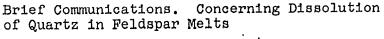
Card 1/4

Brief Communications. Concerning Dissolution of Quartz in Feldspar Melts

75694 sov/80-32-10-43/51

standard; microhardness determination, using MPT-3 apparatus; and microscopic investigation, using MIM-S metallographic microscope. It was shown that quartz content in feldspar melt (referring to porcelain) can be determined by X-ray analysis without the use of an internal standard or by microscopic investigations of the polished sections, which were first etched with a mixture of 9 parts of 14% H2SiF6 and 3 parts of 30% HF, and then polished. The microhardness of feldspar melt with dissolved quartz in it is shown in Fig. 3. It was shown that the solubility of quartz in feldspar melt is in direct proportion to the kilning temperature; this explains the maximum microhardness of porcelain at 1,280° and 9 hr holding (see Fig. 3), since at the lower temperature (1,200°) a large quantity of quartz remains undissolved and at a higher temperature (1,350°) nearly all the quartz is dissolved. The percentage of quartz dissolved in feldspar melt affects the mechanical properties of porcelain. There are 3 tables; 4 figures;

Card 2/4



75694 sov/80-32-10-43/51

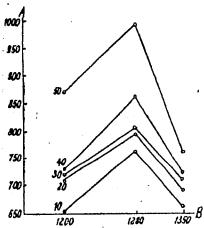
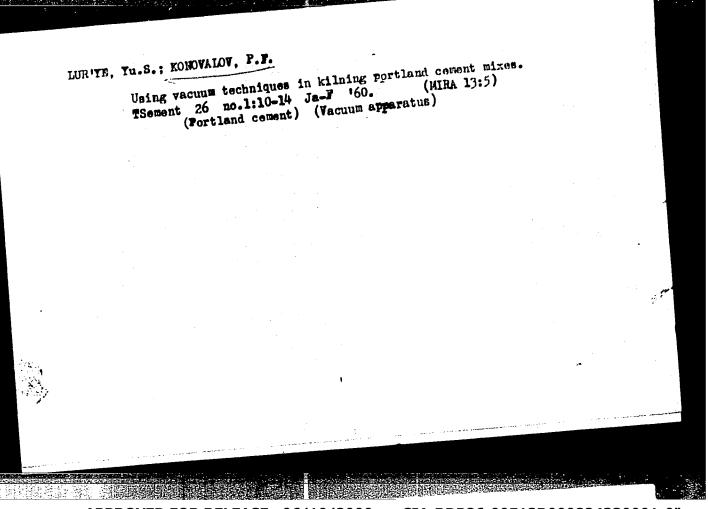


Fig. 3. Effect of kilning temperature on the microhardness, holding for 9 hr. (A) microhardness (in kg/cm²); (B) temperature of kilning (in °C). The figures on the curves show the content of SiO₂ in the samples (in %).

Card 3/4

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Brief Communica of Quartz in Fe	and 9 references, 4 German, 2 Soviet, 1 Japanese, 2 U.S. The U.S. references are: Matisovsky, Cook, R. Z., J. Am. Soc., 40, 9, 299 (1957); Sobe, S. C., Cook, R. Z., J. Am. Cer. Soc., 34, 5, 145 (1951).	
	June 3, 1959	
SUBMITTED:		
Card 4/4		
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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824330001-0"

s/081/61/000/019/044/085 B110/B101

AUTHORS:

Konovalov, P. F., Morozov, Ye. I.

TITLE:

Penetration of calcium and iron in periclase-spinel refractory

material

PERIODICAL:

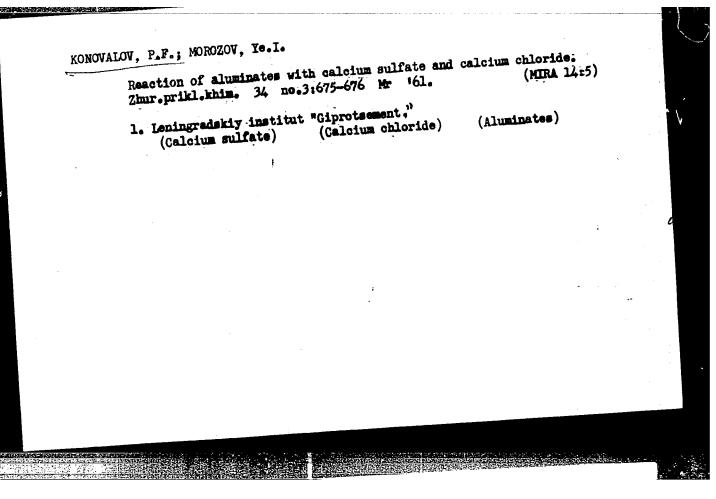
Referativnyy zhurnal. Khimiya, no. 19, 1961, 302, abstract

19K198 (Nauchn. scobshch. Gcs. Vses. n.-i. in-t tsementn.

prom-sti, no. 10 (41), 1961, 30 - 33)

TEXT: The diffusion coefficients of Ca^{45} and Fe^{59} at 1000 - 1400 $^{\circ}$ C were studied. Basing on the data obtained the authors compiled tables which they used for the construction of curves and the calculation of diffusion parameters. In both cases two types of migration of the material through the substance were distinguished, i. e., surface and volume penetration. At low temperatures the diffusion coefficients and activation energies of the two ions become identical. With rising temperature the difference between the diffusion coefficients and activation energies of different diffusing ions increases. This proves that the chemical properties of the diffusing substances in the case of surface diffusion are of smaller Card 1/2

CIA-RDP86-00513R000824330001-0" APPROVED FOR RELEASE: 06/19/2000



KONOVALOW, P.F.; VOLKONSKIY, B.V.; KHASHKOVSKAYA, A.P.; TOROFOV,
N.A., red.; ROTENBERG, A.S., red.; ROZUV, L.K., tekhm.

[Atlas of the microstructures of cement clinkers, refractories,
and slags]Atlas mikrostruktur tsementnykh klinkerov, ogneupovov
i shlakov. Pod red. N.A.Toropova. Leningrad, Gos.izd.vo liti shlakov. Pod red. N.A.Toropova. Leningrad, Gos.izd.vo litry po stroit., arkhit. i stroit. materialam, 1962. 204 p.
(MIRA 15:11)

1.Chlen-korrespondent Åkademii nauk SSSR deystvitel'nyy chlen
Akademii stroitel'stva i arkhitektury SSSR (for Toropov).

(Cement clinkers) (Refractory materials) (Slag)

VOLKONSKIY, Boris Vasil'yevich; KONOVALOV, Pet. Fedorovich; MAKASHEV,
Sergey Dmitriyevich; TOROFOV, N.A., doktor tekhn. nauk, prof.,
red.; MAKASHEV, S.D., nauchn. red.:

[Mineralizers in the cement industry] Mineralizatory v tsementnoi promyshlennosti. Moskva, Stroiizdat, 1964. 197 p.
(MIRA 17:4)

1. Chlen-korrespondent AN SSSR (for Toropov).

KONOVALOW, P.F. Reflex effects of cardiovascular drugs from venous receptors in Mediex effects of cardiovascular drugs from venous receptors in frogs [with summary in English]. Biul.eksp.biol. i med. 45 no.2:77-80 (MIRA 11:5) F'58. 1. Iz kafedry fiziologii (Env. - prof. G.M. Sorokhtin) Khabarovskogo meditsinekogo instituta. (VEIES, effect of drugs on, drugs influencing cardiovasc. funct., resp. & cardisc reactions (Rus)) (RESPIRATION, physiology, eff. of venous stimulation with various drugs influencing cardiovasc. funct. (Rus)) (HEART, physiology, same)

KONOVALOV, P. F. Cand Med Sci -- (diss) "Reflex effect of certain from vein receptors." Khabarovsk, 1959. 24 pp (Khabarovsk State Med Inst), 220 copies (KL, 52-59, 125)

-128-

ROHOVALOV, P.F. Reflex effect of certain drugs from receptors of the mesenteric vein in the cat. Biul.eksp.biol.i med. 48 no.12:71-74 D '59. (KIRA 13:5) 1. Is kafedry fisiologii (sav. - prof. G.H. Scrokhtin) Khabarovskogo meditsinskogo instituta. Predstavlena deystvitel'nym chlenom AMM SSSR V.V. Parinys. (MESENTERIC VESSUAS pharmacol.) (BLOOD PRESSUES pharmacol.) (RESPIRATIOE pharmacol.)

Method of electrostimulation of the vascular receptors. Biul.eksp. biol. i med. 51 no.1:115-116 Ja '61. (MIRA 14.5) 1. Iz kafedry fiziologii (zav. - prof. G.N.Sorokhtin) Khabarovskégo meditsinskogo instituta. Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Parinym. (BLOOD VESSEIS-INNERVATION) (RECEPTORS (NEUROLOGY))

KONOVALOV, P.F.

Reflex influence of potassium chloride and calcium chloride from vein receptors. Trudy Khab. med. inst. 23 no.2:53-54
162 (MIRA 16:12)

Effect of potassium and calcium on the activity of vein receptors. Ibid.:55-56

1. Iz kafedry fiziologii (zav. - prof. G.N.Sorokhtin) Khaba-rovskogo meditsinskogo instituta.

S/891/62/000/000/003/006 A057/A126

AUTHORS:

Konovalov, P.F., Kiseleva, T.P.

TITLE:

Physico-chemical processes occurring in the raw cement mixture under

high-temperature conditions

SOURCE:

Novoye v khimii i tekhnologii tsementa; trudy soveshchaniya po khimii i tekhnologii tsementa, 1961 g. Ed. by P.P. Budnikov and

others, Moscow, Gosstroyizdat, 1962, 67 - 73

TEXT: The authors are developing at present a method for the preparation of clinkers by accelerated high-temperature calcination. In present paper results are given of laboratory experiments (with microphotographs) on processes occurring in the raw-cement mixture in dependence of temperature and holding time for a mixture with a high lime saturation degree, and also some results upon accelerated high-temperature calcination obtained in a pilot plant. The results presented demonstrate that highly resistant clinkers with high alite content can be prepared from a raw mixture with a high KN value and increased silicate modulus at calcination temperatures of about 2,000°C in a much shorter time and with less energy consumption than by the common method. The laboratory ex-

Card 1/2

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824330001

ACCESSION NR: AP4032819

s/0219/64/000/004/0138/0139

Konovalov, P. F. AUTHOR:

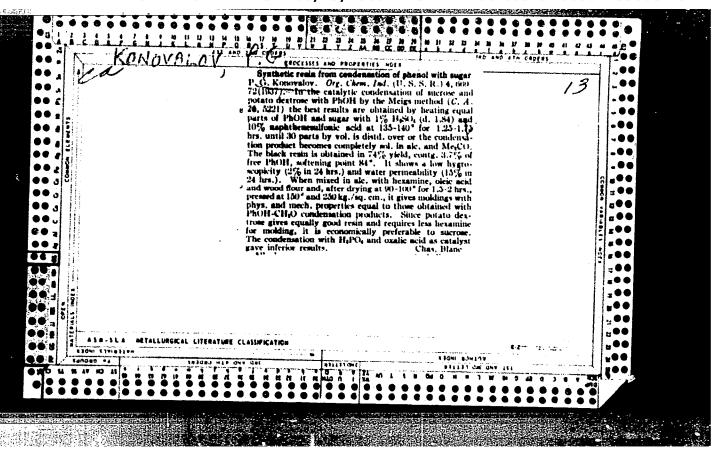
Suction chamber (PK-2) for recording nerve biccurrents TITLE:

SOURCE: Byulleten' eksperimental'noy biologii i meditsinya, no. 4,

1964, 138-139

TOPIC TAGS: suction chamber, nerve biocurrent, nerve biocurrent lead, free movement, moist chamber

ABSTRACT: The PK-2 suction chamber protects the nerve from drying and prevents change in the nerve position on the electrode during free movement of the animal. The chamber is made of plexiglas and is 6 mm high with an outer diameter of 16 mm and an inner diameter of 12 mm. The chamber opens at the bottom, has a silver electrode inside near the top, and a rubber suction ball connected to inside through its side wall. After the nerve is prepared, the connected to the chamber opening is placed over the surrounding tissues, suction is applied, a hermetical seal is produced, and the nerve is pressed firmly against the electrode. The upper part of the chamber is



SEMESTORI BERTARAN MARKATAN M

KONOVAIOV, P. G.; AIEKSEYEV, YE. G.; GCROVOI, B. YA.

Medical Instruments and Apparatus

Ways of improving the quality of painting medical equipment. Med. prom., no. 4, 1952

Monthly List of Russian Accessions. Library of Congress. November 1952. UNCLASSIFIED.

KCNOVALOV, P. G.

"Investigation of the Properties of Polymers of Divinylacetylene and of Chemical Plastics on Their Base as a Protective Lining Material for Chemical Equipment." Sub 10 Jan 52, Moscow Inst of Chemical Machine Building.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

RODE, V.V.; RAFIKOV, S.R.; YERGEBEKOV, M.Ye.; VASKEVICH, D.N.; KOHOVALOV, P.G.; D'YACHKOV, G.A. Thermal degradation of polyalkylenephosphinic acids and their

salts. Vysokom. seed. 7 no.8:1452-1455 Ag 165.

. 1. Institut elementoorganicheskikh soyedineniy AN SSSR.

TRET YAKOV, A.V., kand. tekhn.neuk; GRACHEV, A.V., inzh.; TOKMAKOV, A.A., inzh.; OVODENKO, M.B., inzh.; KONOVALOV, P.G., inzh.

Redesigning the cooling system of the 2800 mill. Sbor. st.
NIITIAZHMASHa Uralmashzavoda nc.6:156-160 65.
(MIRA 18:11)

RODE, V.V.; RAFIKOV, S.R.; YERGEBEKOV, M.Ye.; D'YACHKOV, G.A.; VASKEVICH, D.N.; KONOVALOV, P.G.

Thermal and oxidative degradation of polyalkylenephosphinic acids and their salts. Vysokom. soed. 7 no.5:928-932 My '65. (MIRA 18:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

ACCESSION NR: AP5013064

Our Apsology of the composition of polyalkylenephosphinic acids and their salts.

TITLE: Thermoonidative degradation of polyalkylenephosphinic acids and their salts.

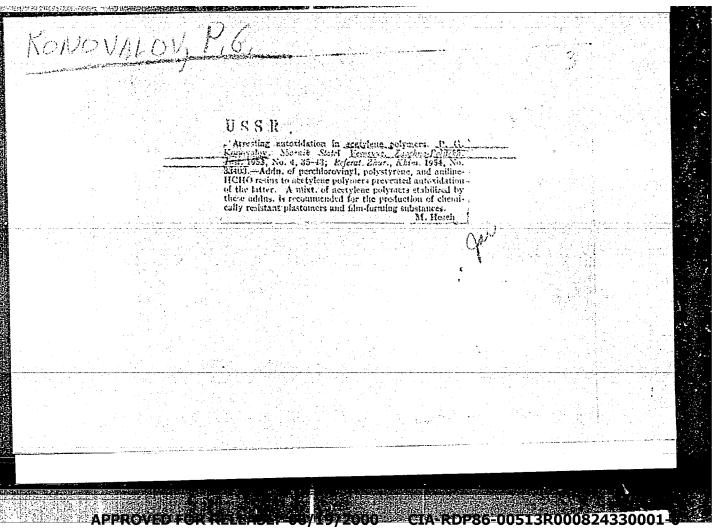
22nd commication in the series "Chemical transformations in polymers"

SOURCE: Vysokomolekulyarnyye scyedineniya, v. 7, no. 5, 1965, 928-932

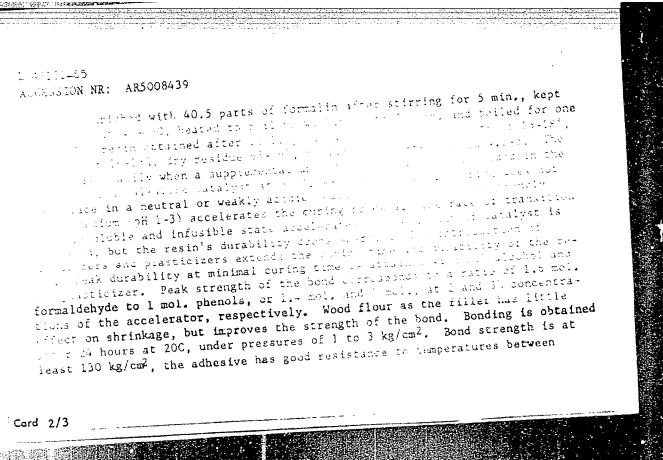
TOPIC TAGS: polymer, thermal degradation, exidation, polyalkylenephosphinic acid, polyethylene

ABSTRACT: The work was undertaken to extend the investigations of polyalkylenephosphinic acids of different phosphorus content (A) and their salts (B), reported by S. R. Rafikov and M. Ye. Yergebekov (Dokl. AN SSSR, 160, 1351, 1965), and, in particular, to determine the thermal stability of these compounds at elevated temperatures. The thermoonidative degradation of the following compounds has been investigated: polyalkylphosphinic acids containing 1.7, 6.5, and 14% P and the Ma, Ra, and Pb salts of 14% P acid. The results were compared with thermal degradation data for pure polyethylene. Thermoonidative degradations were carried out in air in Cord 1/2

ACCESSION NE			UR/0190/65/007/ 678.01:54+678.	'44
AUTHOR: Bel	yakova, A. P.; Bokov	Yu. S.; Lavrishche	v, v. P.; Konovalo	ov, P. G.;
Vaskevich, I	osensitivity of poly) 7		4.0
TITLE: Phot	osensitivity of bory	(VIII) CIIII CIII	0 1065 1627 1	Sho D
SOURCE: Vy	okomolekulyarnyye so	yedineniya, v. 7, no). y, 1907, 103(-1	, ,
TOPIC TAGS:	polymer, photosensi	tivity, polyvinylcin	nnamate, photosens	itive polymer
the monomer and the o,	The purpose of this we molecule on the photon, and p-nitroderivate, 2,000, 0.72% acetate	ives were prepared	by heating poly(vi	nyl alcohol) C with cin-
nemyl chlor	ide, or the appropria irradiated with ulti	aviolet light band	their thermomechan	ical properties,
of untreate	s, ultraviolet and in d films. It was four	id that the photosen	BIGIATON OF the co	
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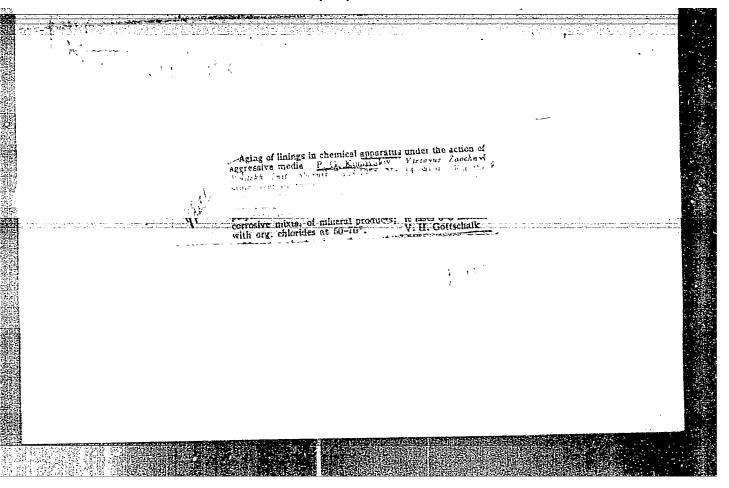
EVIT (m) /EPF(c) /EWP(v) /EPR/EWP(j)/T PG-4/Pr-4/Ps-4 WW/RM s/0081/65/000/003/s063/s063 ACCESSION NR: AR5008439 SOURCE: Ref. zh. Khimiya, Abs. 38367 AUTHOR: Konovalov, P.G.; Nikulina, O. S. TITLE: Manufacture of an adhesive based on the polycondensation of dimethylresorcinols with formaldehyde CITED SOURCE: Sb. statey Khim.-tekhnol. fak. Vses. zaochn. politekhn. in-t, уур. 32, 1964, 78-87 TOPIC TAGS: resin adhesive, PF resin, polycondensation adhesive, adhesive property, polycondensation, dimethylresorcinol copolymer, formaldehyde copolymer . TRANSLATION: The authors studied the polycondensation of a mixture of isomeric inethylresorcinols with turmaldehyde. The products of this reaction are either solid resites or viscous liquids, depending on the proportion of reactants and the environment of the polycondensation. The obtained resins were then plasticized with ethylene glycol. To obtain a resin for adhesive purposes, the reactor flask was charged with 138 parts (by weight) of dimethylresorcinol heated to 45-50C, 41.4 parts of alcohol and 41.4 parts of ethylene glycol. The mixture



L 43131-65 ACCESSION NR: AR5008439		$C \sim C$
-40 and +50C, surpasses all PF adhe moisture resistance. The resin adh viscosity and strength of the bond.	GRAINE TO SCHOTC TOT	comparable In terms of
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Card 3/3 3		

KONOVALOV, Petr Gordeyevich; ZHEHROVSKIY, Vatslav Vatslavovich; SHNEYDEROVA, Vera Vladimirovna; SOROKIN, M.F., retsenzent; LYALYUSHKO, K.A., retsenzent; YAKUBOVICH, S.V., retsenzent; ROGOVIN, Z.A., retsenzent; SOKOLOVA, N.A., red.

[Laboratory work on the chemistry of film-forming substances and on the technology of coatings and paints] Laboratornyi praktikum po khimii plenkoobrazuiushchikh i po tekhnologii lakov i krasok. IAroslavl', Rosvuzizdat, 1963. 202 p. (MIRA 17:5)

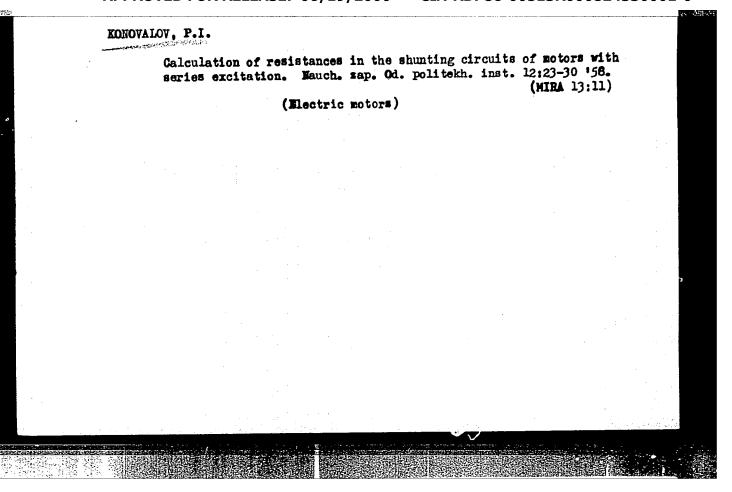


KONOVALOV, P. I.

Technology

Work with light bridging trains; posoble dlia serzhantov inzhenernykh voisk. Moskva, Voen.
izd-vo, 1947.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.



Study the effect of salinity on the development of eggs of roach, brean and carp. Mat. k pozn. fauny i flory SSSR, Otd. zool. uo.19: 70-82 '50. (MIRA 11:3) (Aral Sea--Carp) (Salinity)

KONOVALOV, P. M.; KONOVALOVA, Z. A.

Fish Culture

Permissible limits of salt in hatcheries for semianadromous fish. Zool. zhur., 31, No. 1 1952

9. Monthly List of Russian Accessions, Library of Congress, March 1958, Unclassified.

- 1. KONOVALOV, P. M.
- 2. USSR (600)
- 4. Crayfish Syr-Dar'ya River
- 7. Crayfish in Syr-Dar'ya river basin, Priroda, 41, No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February, 1953. Unclassified.

BEZDENEZHNYKH, G.; KONOVALOV, P.M.; ESLINGER, Yu.V.

Department of Aral fish. Vop.ikht. no.1:63-67 '53. (MLRA 7:6)

1. Rybovodno-biologicheskaya laboratoriya Aralrybvoda.

(Fish culture)

- 1. KONOVALOV, P. M.
- 2. USSR (600)
- 4. Sturgeons -- Aral Sea
- 7. Acclimization of the Caspian sturgeon in the Aral Sea, Ryb. khoz., 29, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

KONOWALOV, P. M.

5762. Opyt po vyrashchivaniyu molodi sevryugi v gruntovykh basseinakh sistery cralrybovoda. M., Pishecepromizdat, 1954. 20s. s 111. 20sm. (N-Vo Rybnoy prom-sti SSSR. Tekhn upr.obmen peredovym tekhn. opytom). 1.200 ekz. 30k-sost. Wazany na oborote tit. 1.-(55-1036) p 639.3.034

SO: Knizhnaya, Letonis, Vol. 1, 1955

KONOVALOV, P.M.; ESLINGER, Yu.V.

Circular earth basins developed by the Aral Administration for Fish Protection and Culture. Vop.ikht. no.2:97-111 54. (MLRA 85)

1. Aral'skoye upravleniye rybokhrany i rybovodstva - Aralrybvod. (Fish ponds)

Condition of Daphnia as an indicator of changes in the cycle of a body of water. Vop.ikht.no.3:135-139 '55. (MLRA 8:11)

1. Rybovodno-biologicheskaya laboratoriya Aralrybvoda (Daphnia)

Daphnia under conditions prevailing in the Aral Sea. Priroda 45 no.5:105-106 My '56. (MEA 9:8) 1. Rybovodno-biologicheskaya laboratoriya Aral'skogo upravleniya rybookhrany i rybovodstva. (Aral Sea--Water-fleas)

KONOVALOV, P. M., Cand of Bio Sci -- (diss) "Raising young sturgeon-like fish under conditions of the delta of Syr-Dar'ya river." Frunze, 1957, 22 pp (Academy of Sciences Kirgiz SSR), 150 copies (KL, 35-57, 106)

26-58-7-28/48

AUTHOR:

Konovalov, P.M., Candidate of Biological Sciences

TITLE:

The Acclimatization of the Caspian Sturgeon in the Aral Sea (Akklimatizatsiya Kaspiyskoy sevryugi v Aral'skom more)

PERIODICAL:

Priroda, 1958, Nr 7, pp 106-107 (USSR)

ABSTRACT:

Recently, the Aral Sea has become an experimental field for the settlement of new fish species. Thus, eggs of the Caspian sturgeon Acipenser stellatus P. were transferred from the Ufa river delta to the Aral Sea, Mugil auratus R. and Mugil salies R. from the Bekovich Bay on the Caspian Sea, and very large amounts of Clupea harengus membras L. eggs by air from the Baltic Sea. This project is carried out by the Tsentral'naya proizvodstvenno-akklimatizatsionnaya stantsiya Ministerstva rybnoy promyshlennosti SSSR (The Central Industrial Acclimatization Station of the USSR Ministry of the Fish Industry) in cooperation with the local agencies of fish breeding and protection, in order to utilize the food resources, plankton and benthon, contained in the Aral Sea. Relevant investigations were made by a group of assistants of VNIRO under the direction of Ya. A. Yablonskaya. In all acclimatization experiments, the cold winter

Card 1/3

26-58-7-28/48

The Acclimatization of the Caspian Sturgeon in the Aral Sea

temperatures of the Aral Sea, where the temperatures of the water falls to 0°C up to a depth of 20 m, must be taken into consideration. The temperature of the deeper water expanses is not yet known, but indications are available that it is more positive. The sturgeon eggs are treated by the method of the hypophysis injection according to N.L. Gerbil'skiy before they are transferred from the Ural Delta to the Aral Sea. The small amounts of Acipenser nudiventris resident in the Aral Sea do not cause much harm to the new species. In 1956, over 702,000 sturgeons of the Acipenser stellatus P. species were transferred to the Aral Sea as compared with 9,000 in 1950. Individual fish have reached a weight of 7 to 8 kg. The meat tastes well, although it is whiter in color than that of the Caspian Sea. Maturity sets in earlier than in the Caspian Sea.

Card 2/3

26-58-7-28/48

The Acclimatization of the Caspian Sturgeon in the Aral Sea

ASSOCIATION: Aral'skoye ikhtiologicheskoye otdeleniye AN Kazakhskoy SSR (The Aral Ichthyologic Department of the AS of the Kazakh SSR)

1. Fishes--Aral sea 2. Fish eggs--Transplanting

Card 3/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824330001

KONOVALOV, P. N.

KONOVALOV, P. N., Insh. i, VENIKOV, A. L., St. Nauchn. sotv.

Akademiya Kommunal'nogo Khozyaystav IM. K. D. Pamfilova

Pechi dliter'nogo Goreniya Akkh-9 IAkkh-11 NA Tverdom Toplive

Page 48

SO: Collection of Annotations of Scientific Research Work on Construction, completed in 1950. Moscow, 1951

VENIKOW, A. L., St. Nauchn. Sotr. i, KONOVALOV, P. N., inzh., LERNER, B. N., o St. Nauchn. Sotr.

Akademiya Kommunal'nogo Khoxyaystva IM. K. D. Pamfilova

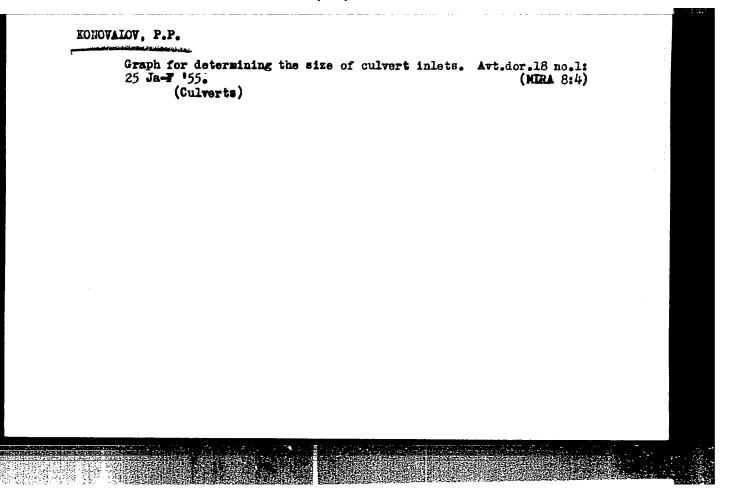
Gazovyye Otopitel'nyye Pechi Akkh-3, Akkh-5, I Akkh-6 Page 49

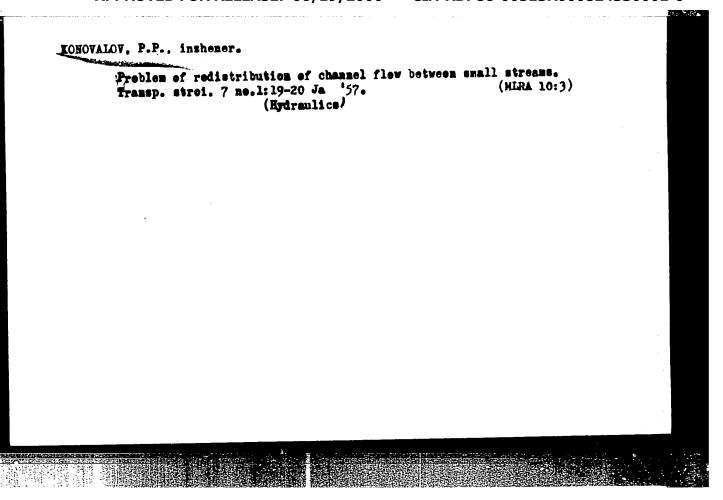
SO: Collection of Annotations of Scientific Research Work on Construction, completed in 1950. Moscow, 1951

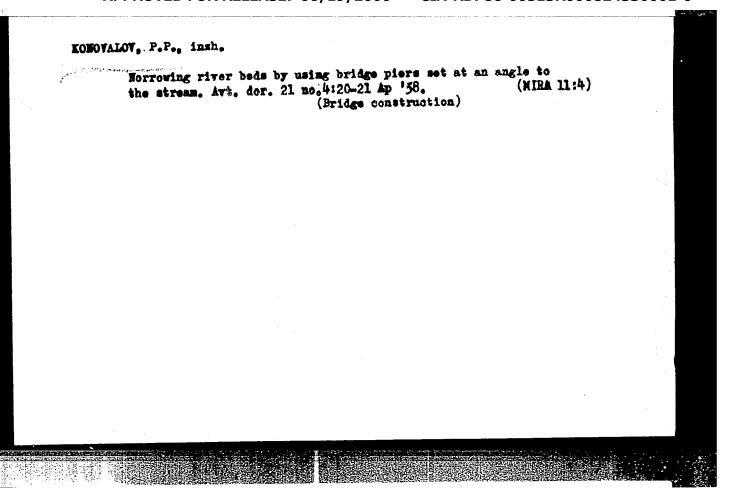
ROLDVALOV, P. P. - "Investigation of changes in steam distribution of ship steam engines as a function of changes in operating conditions".

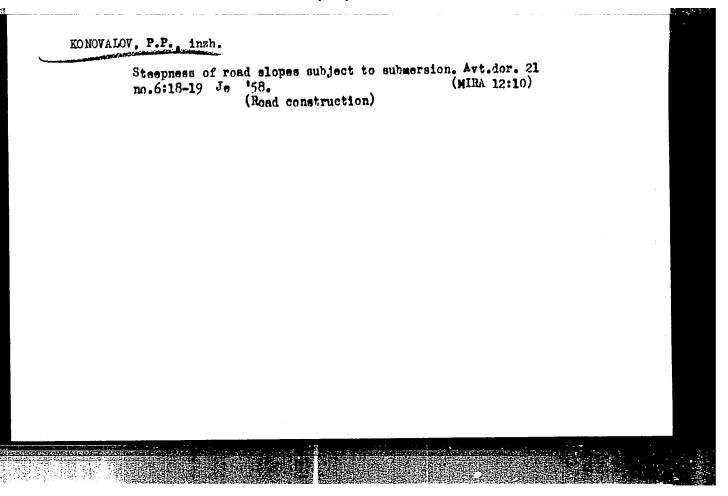
Leningrad, 1985. Min River Fleet WSR. Leningrad inst of Water Transport Engineers. (Dissertation for the Degree of Candidate of Technical Science.)

S0: Knizhnaya Letopis', No. 43, 22 October 1955. Moscow





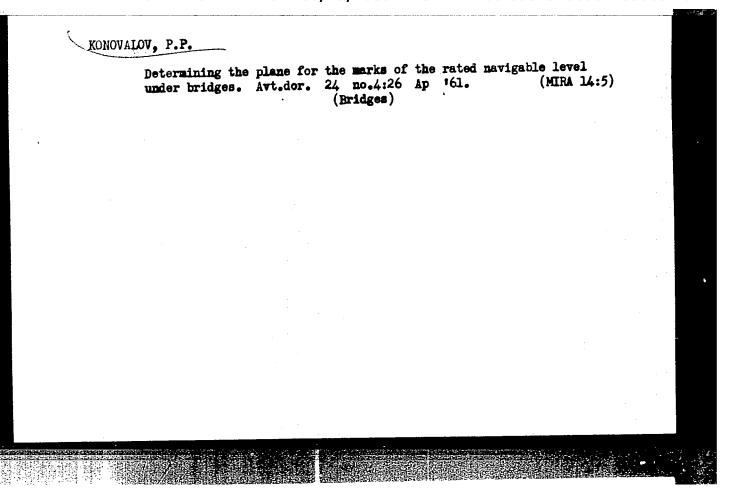




MONOVALOV, P.P., kand.tekhn.nauk

Determining the relative sliding speed in a connecting rod bearing by an analytic method. Trudy LIIYT no.26:308-309 '59. (MIRA 14:9)

(Connecting rods) (Bearings (Machinery)



Hydraulic turbulence stimulator for pulp pipelines. Trudy LIVT (MIRA 14:9)

(Hydraulic conveying) (Dredging machinery)

KONOVAIOV. P.P., kand. tekhn. nauk, dotsent

Equipment of standard buoyage service ships and motor launches.
Trudy LIVT no.35:38-40 '62. (MIRA 16:11)